

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 1: Generation Study - No Extrapolation Diversion Data

To request a substitution for a previously approved base-year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board  
Office of Local Assistance  
1001 I Street, 9th Floor  
PO Box 4025  
Sacramento, CA 95812-4025

**General Instructions:**

Please select the **ONE** choice below that best explains your request to the Board.

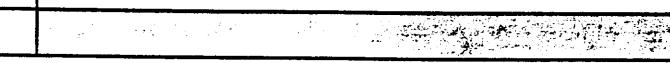
1. Use a recent generation-based study to calculate our current reporting-year generation amount, but not officially change our existing Board-approved base year.  
 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The cells on these sheets are protected except for the ones that need information. If you have problems using these sheets, please contact your Office of Local Assistance representative.

**Section I: Jurisdiction Information and Certification**

*All respondents must complete this section.*

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name		County	
Sierra Madre		Los Angeles	
Authorized Signature 		Title DIRECTOR OF PUBLIC WORKS	
Type/Print Name of Person Signing	Date	Phone ( )	
Bruce Inman	10.23.01	(626) 355-7135	
Person Completing This Form (please print or type)		Title Consultant	
Rosalind Risser Yasui			
Affiliation:	EcoSynthesis		
Mailing Address	City	State	ZIP Code
232 W. Sierra Madre Blvd.	Sierra Madre	CA	91024
E-mail address <a href="mailto:smpwrks@earthlink.net">smpwrks@earthlink.net</a>			

**Section II: Information for New Generation-Based Study for Existing or New Base Year**

Attach additional sheets if necessary— reference each response to the appropriate cell number (e.g., 4).

*Note: New base years must be representative of a jurisdiction's disposal and diversion.*

1. Current Board-approved base-year:	2. Proposed new generation-based study year:
1990	1999

**3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:**

This year is representative of a typical year for this jurisdiction in terms of disposal and diversion. The disposal at the landfill has not changed significantly over the past 3 years. In terms of demographics and population, the jurisdiction has changed very little as well. No unusual diversion activities were included in this study.

**4. Enter your diversion rates below.**

Diversion rate calculated using existing base year	a. <0 %	Diversion rate calculated using new generation-based study	b. 28.6 %
For existing base year pounds/person/day based on generation	0.00739945	For new generation based study pounds/person/day based on generation	9.771261219
Residential generation 79 % Non-Residential generation 21 %		Residential generation 75% % Non-Residential generation 25% %	
Population existing generation-based study 88630		Population new generation-based study 11,600	

**5. If there is an increase between 4a and 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples, e.g. change in jurisdiction's demographics.**

The City conducted a new Base Year Generation Study for 1999. Since 1990, the City has implemented diversion programs that are consistent with their SRRE such as: curbside crv recycling, residential curbside greenwaste collection, recycling at City Hall, grasscycling and composting at the public school and the City park, and a strong public outreach program that includes newspaper articles, closed circuit programming, and a City Recycling Guide. The 1990 base year did not include commercial sector diversion nor any of the diversion from the programs mentioned above. The 9.5 pounds per person generation is typical of this type of residential community with a large amount of greenwaste.

**6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)**

In part due to inaccuracies in the 1990 Base Year, Sierra Madre's 2000 diversion default value was -13%. The 1990 base year did not count all the various types of generation, including self-haul and recycling done independently of the hauler. Also, using the adjustment method to determine generation, disposal and diversion that is used for larger cities is not a good indicator for small cities such as Sierra Madre, especially after 10 years. In order to get a more accurate base year, the City chose to include data from 80 of its 143 businesses and schools, as well as to quantify the various activities that can count as diversion at the local landfill.

Diversion Activity	Actual Tons	Relative Percent to operation (if total diversion)	Specific material type(s) (List any) and Source	Specific conversion factor used (if any) and Source	Type of record and location of record
<b>Please use the Board's program types.</b> The program type glossary is online at: <a href="http://www.clwmb.ca.gov/locentral/patis/codes/reduce.htm">http://www.clwmb.ca.gov/locentral/patis/codes/reduce.htm</a>					
<b>Other Residential recycling</b> (list each program separately)					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal Residential Recycling</b>	<b>1286</b>	<b>6.2%</b>			
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal Residential Composting</b>					
Green waste drop-off					
Curbside green waste					
Christmas Tree program					
<b>Other Residential composting</b> (list each program separately)					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal Residential Composting</b>	<b>2659</b>	<b>12.9%</b>	grassclippings, yardwaste included in greenwaste	Actual tonnage per hauler	Hauler record, City Hall
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal Residential Diversion</b>	<b>3945</b>	<b>19.1%</b>			
<b>Non-Residential Activities:</b>					
Source Reduction					
Non-Residential Waste Audits*	217	1.1%		See Section 9	
<b>Other non-Residential source reduction</b> (list each program separately)					
Enter Program name					
Enter Program name					
Enter Program name					
Enter Program name					
Enter Program name					
<b>Subtotal Non-Residential Source Reduction</b>	<b>217</b>	<b>1.1%</b>			

<b>7. Disposal Tonnage: (enter values)</b>	11665	Residential	3101	Non-Residential	14766	Total
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Please select the **ONE** choice below that best explains your disposal data and complete the required tables.

- a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)
- b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at <http://www.ciwmib.ca.gov/lcentral/forms/rytnmdrq.doc>)
- c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at <http://www.ciwmib.ca.gov/lcentral/forms/rytnmdrq.doc>)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. (Note: The Board expects the jurisdictions to be able to provide all back-up documentation, if requested) Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (form will perform all addition calculations). If any diversion is from restricted wastes, (agricultural wastes/inert solids (e.g., concrete, asphalt, dirt, etc.), white goods, and scrap metal) please identify those programs/waste types and fill out section 10. Please mark as Attachment 8 all copies of survey forms.

\*Please provide detailed non-Residential waste audit information in Section 9.

Division Activity	Actual tons	Relative Percent to Total Generation	Specific material type(s) (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Please use the Board's program types. The program type glossary is online at: <a href="http://www.ciwmib.ca.gov/lcentral/parts/icode/reduce.htm">http://www.ciwmib.ca.gov/lcentral/parts/icode/reduce.htm</a>	(A)	(Total Generation)			
<b>Residential Activities:</b>					
<b>Source Reduction</b>					
Backyard composting		0.0%			
Grasscycling		0.0%			
<b>Other Residential source reduction (list each program separately)</b>					
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
<b>Subtotal Residential Source Reduction</b>	<b>0</b>	<b>0.0%</b>			
<b>Curbside Recycling</b>			crv, aluminum, glass, newspaper, junk mail, white ledger, magazines, colored paper, cereal boxes, telephone books, occ, plastics number 1 through 7, tin, greenwaste		
				Actual tonnage per hauler	
				No buy back center in city	
<b>Buyback Centers</b>	<b>1286</b>	<b>0.2%</b>			
<b>Drop-off centers</b>				Hauler record, City Hall	

Diversions Activity	Actual Tons	Relative Percent to Total Generation	Specific material type(s) (list operation with multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Please use the Board's program types: The program type glossary is online at: <a href="http://www.ciwmib.ca.gov/centraidans/codes/reduce.htm">http://www.ciwmib.ca.gov/centraidans/codes/reduce.htm</a>					
Non-Residential Waste Audit*	537	2.6%			See Section 9
Other non-Residential recycling (list each program separately)					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal Non-Residential Recycling</b>	<b>537</b>	<b>2.6%</b>			
Non-Residential Waste Audit*	169	0.8%			See Section 9
Other non-Residential composting (list each program separately)					
Parks composting	16	0.1%	grassclippings, yardwaste	325 lbs per 3 cubic yards (USEPA)	Water Dept. Superintendent
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal Non-Residential Composting</b>	<b>185</b>	<b>0.9%</b>			
<b>Subtotal Non-Residential Diversions</b>	<b>938</b>	<b>4.5%</b>			
Residential/Non-Residential Diversions Activities					
ADC	705	3.4%	greenwaste	Actual tonnage (Disposal Reporting System minus hauler greenwaste)	Disposal Reporting System, Hauler Record
Stimbo					
Scrap metal					
Construction Debris	9	0.0%	concrete		
Landfill salvage	322	1.6%	asphalt, dirt	Actual tonnage	Hauler record, City Hall Bill George, L.A. County San. Districts
<b>Subtotal Residential/Non-Residential diversion</b>	<b>1036</b>	<b>5.0%</b>			
<b>Total Diversions Tons</b>	<b>1936</b>	<b>23.6%</b>			

Diversions Activity	Actual Tons	Relative Percent to Total Generation	Specific material type(s) (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
<p>Please use the Board's program types. The program type glossary is online at: <a href="http://www.clwimb.ca.gov/ocentral/parts/codes/reduce.htm">http://www.clwimb.ca.gov/ocentral/parts/codes/reduce.htm</a></p>					
Total Disposal Tons from Sec.7	14766	71.4%			
Total Generation Tons (Div+Dis)	20686				

**9. Specific Non-Residential Sector Waste Audits-Top 10 Non-Residential Generators**

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.

(Form will perform all addition calculations).

Please provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage (or each diversion activity/material type. Include copies of survey form(s) used.

Type of Non-residential Generator	Audit Reference Number	Specific Major Diversion Activities include material type (e.g. paper recycling, grasscycling). (List activities on one line)	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Diversion Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) On-site (O) Other
Grocery Store	27	cardboard and cooking oil recycling, pallet reuse, plastic cases replace cardboard, produce trimmings given to customers for animal food, electronic equipment reuse	23	398		421.24	2.0%	0
Private School	4	paper, aluminum can, glass, and plastic recycling, paper, cardboard, pallet and plastic reuse, grasscycling, toner cartridge return, furniture, food and book donation, recycled paper and rose petal project	30	3		32.61848	0.2%	0
Meat Market	70	meat and bone rendering, cooking oil rendering, cardboard recycling, plastic recycling and reuse, food donation	0	10		10.8571	0.1%	0
Restaurant	15	cardboard, glass, aluminum, cooking oil and plastic container recycling	18			18.2915	0.1%	0
Restaurant	43	plastic christmas tree recycling, pallet reuse, cardboard recycling	9	8		16.7	0.1%	0
Warehouse	67	cardboard recycling, plastic crate reuse replaces cardboard	3	14		16.51	0.1%	0
Liquor Store	10	paper recycling, duplex copying, plastic reuse	13	6		19.120125	0.1%	0
Church/Childcare	58	metal (over 1990 amount) and plastic recycling, pallet and paper packaging (cardboard and newspaper) reuse	0	0		0.123045	0.0%	0
Electronics Dealer	2							

Jam Manufacturing	77	glass and plastic recycling, pallet and paper reuse, cardboard and kraft bag reuse, plastic container reuse and plastic container donations	9	0	93347	0.0%	0
		<b>Totals</b>	<b>87.29285</b>	<b>480.6021</b>	<b>567,894.95</b>	<b>2.7%</b>	<b>0</b>

Summarize the non-residential diversion activities quantification methodology and applicable conversion factors.  
See Attachment 9.2

**10.** For each restricted waste type [i.e., agricultural waste, inert solids, (e.g. concreter, asphalt, dirt, etc.) scrap metals and white goods (PRC Section 41781.2)] and associated program, please provide the following

a. If the diversion program started on or after January 1, 1990, complete the following table.

(Note: program name refers to one specific diversion program for that waste type; (e.g., diversion conducted by City Public Waste Dept).

Restricted Waste Type	Specific Program name	Year started	Tonnage
Inert Solids	Landfill Salvage: asphalt	1991	84
Inert Solids	Landfill Salvage: dirt	1991	238
Scrap Metal	Business # 40 steel drum recycling	1996	0
Scrap Metal	Business # 41 steel drum recycling	1990	0
Scrap Metal	Business # 60 steel drum recycling	1994	1
Scrap Metal	Business # 74 steel keg recycling	1990	0

b. If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 10b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.

Instead please provide date of Board approval of previously submitted information. \_\_\_\_\_ (Date)

If documentation is not available, go to 10d.

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion [PRC Sec. 41781.2 (c) (1)].
- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (Note: this criterion is applicable to the entire jurisdiction, not to individual programs [PRC Sec. 41781.2 (c) (2)]).
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New base year or reporting year diversion tonnage
Scrap Metal		
Scrap Metal		
Scrap Metal		
Pull Down for Waste Types		
Pull Down for Waste Types		

d. If the diversion program started before January 1, 1990, and the documentation requested in 10b is not available, please complete the table below for each program claimed. (Note: Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.)

Restricted Waste Type	Specific Program name	New base year or reporting year tonnage	1990 diversion tonnage	Difference
Scrap Metal	Business # 34 (1978) scrap metal	0.2494	none	
Scrap Metal	Business #7 (1976) precious metal	0.0145	none	
Scrap Metal	Business # 38 (1980) steel drums	0.12	none	
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				

## City of Sierra Madre Source Reduction and Recycling Programs from Commercial Sector Surveys (1999)

Survey Data Descriptions - Top 10 Diverters by Material Type  
All data was collected on-site from business managers.

### Recycling

#### Cardboard - Businesses # 27, 15, 43, 67 and 10 recycle cardboard

Business # 27 is a grocery store that bales cardboard. The surveyor viewed the baler. The manager stated that they recycle 18 bales a month and each bale weighs 850 lbs. Business # 10 and # 43 puts the empty boxes beside the trash bins for third party recyclers to pick up. The estimate was given in terms of number of boxes set out each week. The default for a medium box (2.2 lbs/box USEPA) was used to calculate the weight of the boxes diverted annually.

Business # 10 recycles some of its cardboard at a City drop-off facility in the park. They take 150 lb. 3 to 4 times per week. The auditor used the calculation of 150 lbs x 3.5 times per week x 52 weeks. Business # 67 is a warehouse for a large arts and crafts company. The company self-hauls the cardboard boxes to a recycling drop-off site to be recycled. The manager gave the amount as 2 - six foot stacks of flattened cardboard each week. He said it totaled 200 pounds per week.

#### Paper - Businesses # 4 and 58 recycle paper

Business # 4, private high school, has 3-32 gallon trash barrels for recycling office paper. They are filled and recycled weekly. The USEPA default for office paper is 25.41 lbs per 33 gallons. Business # 58 The facility supervisor says that they fill one 3 cubic yard recycling bin per week with office paper. The USEPA default for a cubic yard of loose mixed paper is 363.5 lbs per cubic yard.

#### Glass - Business # 77 recycles glass

Business # 77 owner stated that they recycle 20 to 30 pounds of "bad" glass per year. The surveyor used 25 lbs per year for the estimate. Business # 2 is an electronics dealer that recycles 100 lbs. of metal wire per year through a surplus company (company records).

#### Metal - Business #2 recycles metal

Business # 2 is an electronics dealer that recycles 100 lbs. of metal wire per year through a surplus company (company records). This metal was not recycled prior to 1990.

Aluminum Cans - Businesses #4 and 2 recycle aluminum cans. Department of Conservation data is not available for this city and is not reported elsewhere. Business # 4 is a private high school and business # 2 is an electronics dealer. The school holds many events throughout the year, including weddings and receptions. They serve food at these events and recycle the aluminum cans that are generated. The school has receipts for 150 pounds of aluminum cans every two months. This city does not have a recycling center within its boundaries, therefore it does not get any recycling credit for this material through the Department of Conservation Business # 2 recycles 2 six-packs a week. The USEPA default conversion weight for aluminum cans is .037 lb. per can.

#### Plastic - Businesses # 4, 15, 43, 67, 2 and 77 recycle plastic

Business # 15 recycle their plastic dishwashing detergent containers through the detergent vendor. The detergent is supplied in 5 gallon plastic buckets. The EPA conversion factor for a 5 gallon plastic bucket is 1.9 lb/each.

Business # 67 sells and then recycles its own plastic Christmas trees. The manager stated that 5,000 lbs of trees were recycled each year. Business # 4, 43 and 77 recycle their 5 gallon plastic buckets through their waste hauler. The EPA conversion factor for a 5 gallon plastic bucket is 1.9 lb/each.

Cooking Oil and Meat Scraps - Businesses # 70, 43 and 15 recycle cooking oil and meat scraps through a rendering company. Business # 70 is a meat market, and # 15 and # 43 are restaurants. They recycle their meat scraps and cooking oil through a rendering company. The oil is stored in 55 gallon drums which are filled and picked up weekly.

The calculation is based on the USEPA default for a gallon of cooking oil, which is 7.45 lbs per gallon. The weight for the meat scraps from the meat market was given by the manager as 800 to 1000 lbs/week. The auditor used the average of 900 lbs for the calculation.

#### Grasscycling - Business # 4 grasscycles

Business # 4 is a private high school on 13.5 acres. The school's administrative assistant stated that they grasscycle 1/3 of the 13.5 acres each week. The (UC Riverside Co-Op Extension) default for grasscycling is 6.5 tons per acre per year.

#### Source Reduction

City of Sierra Madre

Paper - Business # 58 saves paper by making double-sided copies  
Business # 58 is a 36,000 square foot church and child care facility that is open 7 days a week. It has its own printing department for various publications that it distributes to its congregation.  
Their purchasing records show that they use 5 million sheets of paper each year. The supervisor estimated that 2.5 million sheets of paper are saved each year by duplex copying.  
The USEPA default for a ream (500 sheets) of paper is 5 pounds. 2.5 million sheets equals 5000 reams of paper.

Paper - Business # 4 makes paper from recycled paper and rose petals. The facility manager stated that 78 lb of paper per year is made and sold by student

The actual weight of each bag is .5 lb and they reuse 2 each week, which diverts 52 lbs per year.

Paper - Business # 2 reuses newspapers instead of foam peanuts for shipping products. They reuse one large newspaper each day for 320 days per year  
The EPA weight default for a 12" stack of newspapers is 35 lb., or 2.9 lb per inch.

The surveyor estimated that the business used an inch of newspaper per day for packing (conservative). Based on 2.9 lb/inch, their newspaper diversion is 754 lb/yr.

Cardboard - Businesses # 4, 27, 10 and 77 reuse cardboard or use reusable plastic crates for shipping that replace cardboard

Business # 4 hosts filming several times a year. The film crew puts down large pieces of cardboard to protect surfaces.  
Rather than disposing of this cardboard, the school reuses the cardboard to build sets and props for plays. 25 of these 4 x 8 sheets of cardboard are re-used each year.  
Each sheet weighs the equivalent of a large cardboard box, or 4 lbs. (USEPA)

Business # 27 manager stated that plastic crates replace cardboard and they use and return 20 plastic crates a week to their vendors.

The weight conversion for a medium cardboard box was used for the calculation (2.2 lbs USEPA)

The USEPA default for a medium cardboard box is 2.2 lbs each.

Business # 10 The business owner stated that plastic crates replace medium-sized cardboard boxes. He gets 50 plastic crates every week and sends them back to the vendor to be reused.  
Each crate replaces a medium cardboard box, which has a default weight of 2.2 lbs per USEPA.

Business # 2 owner stated that he re-uses 200 to 300 medium cardboard boxes a month for in outgoing shipments.

The USEPA default for a medium cardboard box is 2.2 lbs each.

Business # 77 re-uses three medium cardboard boxes per day for shipping.

These are boxes that came to them with something other than what is being shipped out.

The USEPA default for medium cardboard boxes is 2.2 lb each.

Plastic - Businesses # 4, 15, 58 and 77 re-use plastic

Business # 4 reuses two 5 gallon plastic buckets throughout the year.

The EPA weight default for this type of bucket is 1.9 lb each.

Business # 15 reuses 22 to 23 plastic gallon jugs throughout the year for mixing sauces and liquids. The EPA weight default for the jugs is .33 lb each.

Business # 58 refills plastic water bottles rather than using disposable cups. 16 of the 25 employees follow this practice. The business is open 7 days/week.

Business # 77 sells or donates 10 large plastic 55 gallon barrels per month that can no longer be used. The manager stated that each barrel weighs 15 pounds.

Business # 27 is a grocery store. The manager stated that each week 150 lb of produce trimmings

Business # 27 diverts produce trimmings

Business # 27 divert food from events. The manager stated that each week 150 lb of produce trimmings are given to customers for animal food.

Left over food from events - Business # 4 donates food

Business # 4 is a private high school that holds many events throughout the year, including weddings and receptions.

The facility operator stated that left over food (averaging one pound per day) is taken home by staff.

The calculation is based on 260 days per year.

Pallets - Businesses # 27, 4, 67, 2, and 77 re-use pallets

Business # 27 Manager stated that they re-use 4 plastic pallets and 2 wood pallets per week. The pallets are unloaded and returned to various locations.  
Some are returned with materials on them and some are returned empty.

Business # 4 receives 6 pallets a year for their candy drive. Rather than disposing of the pallets, they are returned to the candy company.  
They also return the plastic film that comes wrapped around each pallet. The actual weight of the film is .75 lb/pallet.

Business # 67 manager stated that he sends 300 to 400 pallets per year to a pallet recycler.  
100 other pallets are re-used within the company to send materials to other locations from the warehouse.

Business #2 gives 10 to 20 pallets each month to another company to be re-used. The surveyor used the USEPA default of 40 lbs per pallet x 15 pallets x 12 months.  
Business # 77 returns 5 to 6 pallets per week to the vendor. The USEPA default for pallets is 40 pounds each.

Toner Cartridge - Business # 4 returns 24 toner cartridges to the manufacturer per year for refilling and reuse.  
The EPA weight default for a toner cartridge is 2.5 lb each.

Notes:

Summary of non-residential diversion activities quantification methodology and applicable conversion factors.

The surveys were conducted on-site by a consultant. The survey data was recorded on a confidential survey sheet (copies of top ten are attached)  
Eighty of the City's 141 businesses were surveyed using the methodology and survey form similar to that of the CIWMB's Diversion Study Guide.  
The City has one public elementary school and several private schools, including a residence/school for the blind.

The schools are the largest employers and largest waste generators in the City. Data from five schools are included in the study.

The remaining businesses are mainly small retail shops and restaurants. There is one "mini" industrial park.  
Conversion factors are from Appendix J of the Diversion Study Guide.

Items that are not on the Conversion Sheet were researched by locating these items in on-line catalogs (e.g. Rubbermaid).

Pallets are counted as source reduction only once each at 40 lbs each if they are not disposed. There is very little pallet use in Sierra Madre.

Grasscycling (observed at only one school) was counted as 6.5 tons per acre per year (from Harivandi, M. A., et al., "Grasscycling in California," California Turfgrass Culture, Vol. 46, Nos. 1 and 2)

Cardboard baling occurs at only one location. These bales are counted as 850 lb. each, the average for a bale of cardboard according to EPA guidelines.

There are a few thrift stores in town. The stores were contacted for the survey, but due to the difficulties of quantifying that type of diversion, it was not quantified nor included in this report.  
No extrapolation was used. Only actual diversion tonnage was counted toward the non-residential diversion rate.

# Board Meeting

January 22-23, 2002

City of Glendale Solid Waste Reduction and Recycling Program from Commercial Sector Surveys (1998)

Agenda Item  
Attachment 2a

Top 10

Survey Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor	Source	Composting (Pounds)	Source Reduction (Pounds)	Recycling (Pounds)	Total Tons
27	Market	Recycling	Cardboard	850 lb/bale	Tellus	0.00	795,800.00	397.80	
		Recycling	Cooking Oil	7.45 lb/gal	USEPA	0.00	8,940.00	4.47	
		Reuse	Plastic crate replaces cardboard	1.2 lb/beverage case replaces 2.2 lb/media	USEPA	17,160.00	0.00	8.58	
		Donated	Plastic Pallet	40 lb/pallet	USEPA	8,320.00	0.00	4.16	
		Reuse	Produce Trimmings	Actual weight of produce 150 lb/wk	Company Data	7,800.00	0.00	3.90	
		Reuse	Wood Pallet	40 lbs/pallet	USEPA	4,180.00	0.00	2.08	
		Reuse	Electronic Equipment return	Actual weight of equipment 500 lb/yr	Company Data	500.00	0.00	0.25	
4	Private School	Recycling	Paper	5 lb/ream	USEPA	0.00	4,805.00	2.40	
		Recycling	Aluminum Can	Actual weight tickets	Company Data	0.00	900.00	0.45	
		Recycling	Newspaper	Actual weight of paper 1 lb/day	Company Data	0.00	280.00	0.13	
		Recycling	Mixed Paper/Mail	Actual weight of paper 100 lb/yr	Company Data	0.00	108.00	0.05	
		Recycling	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	0.00	3.80	0.00	
		Grasscycling	Grasscycling	6.5 tons per acre per year	UC Riverside CoOp Extension	58,000.00	0.00	29.00	
		Reuse	Scratch Paper	5 lb/ream	USEPA	280.00	0.00	0.13	
		Reuse	Cardboard	4 lb/large box	USEPA	643.00	0.00	0.32	
		Reuse	Food Donated	Actual weight of food 1 lb/day	Company Data	485.00	0.00	0.24	
		Reuse	Pallet	40 lbs/pallet	USEPA	240.00	0.00	0.12	
		Reuse	Donated Furniture	Actual weight of furniture 200 lb/yr	Company Data	200.00	0.00	0.10	
		Reuse	Donated Books	Actual weight of books 87.5 lb/yr	Company Data	87.50	0.00	0.04	
		Reuse	Paper Made from used paper and rose petals	Actual weight 78 lb/yr rose petal paper	Company Data	78.00	0.00	0.04	
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	60.00	0.00	0.03	
		Reuse	Plastic Shrink Wrap Returned to Vendor	Actual weight of pallet wrap 0.75 lb/pallet	Company Data	4.50	0.00	0.00	
		Reuse	Plastic Jugs	0.33 lb/1 gal jug	USEPA	3.98	0.00	0.00	
		Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	3.80	0.00	0.00	
70	Meat Market	Recycling	Meat Scraps	45 lb/cf	USEPA	0.00	46,800.00	23.40	
15	Restaurant	Recycling	Cardboard	2.2 lb/med box	USEPA	0.00	11,440.00	5.72	
		Recycling	Cooking Oil	7.45 lb/gallon	USEPA	0.00	8,940.00	4.47	
		Recycling	Plastic	1.9 lb/5 gal bucket	USEPA	0.00	91.20	0.05	
		Reuse	Plastic Jugs	0.33 lb/1 gal jug	USEPA	42.90	0.00	0.02	
		Reuse	Food Donated	Actual weight of food 2.5 lb/day	Company Data	800.00	0.00	0.40	
43	Restaurant	Recycling	Cardboard	2.2/med. box	USEPA	0.00	22,580.00	11.44	
		Recycling	Glass	0.5 lb/8 oz bottle	USEPA	0.00	6,500.00	3.25	
		Recycling	Cooking Oil	7.45 lb/gallon	USEPA	0.00	3,576.00	1.79	
		Recycling	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	0.00	2,223.00	1.11	
		Recycling	Beverage Container	0.89 lb/case (24 cans)	USEPA	0.00	1,404.00	0.70	
67	Warehousing	Recycling	Cardboard	2.2/med. box	USEPA	0.00	10,400.00	5.20	
		Reuse	Pallet	40 lbs/pallet	USEPA	18,000.00	0.00	9.00	
		Recycling	Plastic Christmas Tree	Actual weight of tree 5,000 lb	Company Data	5,000.00	0.00	2.50	
10	Liquor Store	Recycling	Cardboard	Actual weight of cardboard 27,300 lb	Company Data	0.00	27,300.00	13.65	
		Reuse	Plastic Case replaces cardboard	1.2 lb/beverage case replaces 2.2 lb/media	USEPA	5,720.00	0.00	2.86	
58	Church/Chilcare	Reuse	Duplexed Paper	50 lb/case	USEPA	25,000.00	0.00	12.50	
		Recycling	Paper	484 lb/cy	USEPA	0.00	12,584.00	6.29	
		Reuse/Refill	Plastic Bottle	0.05/bottle	USEPA	458.25	0.00	0.23	
2	Electronic Cable Dealer	Recycling	Wire to Surplus Dealer	Actual weight of wire 100 lb/New since 198	Company Records	0.00	100.00	0.05	
		Recycling	Beverage Container	0.037/can	USEPA	0.00	23.00	0.01	
		Reuse	Pallet	40 lbs/pallet	USEPA	7,200.00	0.00	3.60	
		Reuse in Packaging	Newspaper	35 lb/12" stack=2.9 lb/inch	USEPA	754.00	0.00	0.38	
		Reuse	Cardboard	2.2 lb/med box	USEPA	6,800.00	0.00	3.30	
77	Jam Mfg.	Reuse	Pallet	40 lbs/pallet	USEPA	11,440.00	0.00	5.72	
		Reuse	Cardboard	2.2/med. box	USEPA	688.40	0.00	0.34	
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	15.60	0.00	0.01	
		Reuse	Plastic Drum Donated or Sold	15 lb/55 gallon drum	www.spill911.com	1,800.00	0.00	0.90	
		Reuse	Plastic Case Replaces 2.2 lb/med box	Actual weight of strawberry case 4 lb/straw	Company Data	4,400.00	0.00	2.20	
		Reuse	Shredded Paper Reused for Packaging	Actual weight of paper 1 lb/wk	Company Data	52.00	0.00	0.03	
		Reuse	Kraft Sugar Bag Reused for Trash Containe	Actual weight of bag .5 lb/kraft bag	Company Data	26.00	0.00	0.01	
		Recycling	Glass	Actual weight of glass 25 lb/yr	Company Data	0.00	25.00	0.01	

All remaining businesses

Survey Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor	Source	Composting (Pounds)	Source Reduction (Pounds)	Recycling (Pounds)	Total Tons
1	Accounting	Reuse	Scratch Paper	5 lb/ream	USEPA	5.20	0.00	0.00	
		Reuse	Duplexed Paper	5 lb/ream	USEPA	120.00	0.00	0.06	
		Reuse/Refill	Toner Cartridge	2.5/cartridge lb	USEPA	12.50	0.00	0.01	
3	Business Equipment	Reuse in packaging	Kraft Paper	Actual weight 50 lb/roll	Company Data	175.00	0.00	0.09	
		Reuse/Donated	Steel Equipment Donated	Actual weight 3000 lb	Company Record	3,000.00	0.00	1.50	
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	USEPA	4.60	0.00	0.00	
5	Hardware and Misc	Reuse	Pallet	40 lbs/pallet	USEPA	1,200.00	0.00	0.60	
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	7.55	0.00	0.00	
		Reuse	Plastic Peanuts	22.55 lb/cy	USEPA	67.85	0.00	0.03	
		Reuse	Plastic Jugs	0.33 / 1 gal jug	USEPA	21.12	0.00	0.01	
		Reuse	Cardboard	3.3 avg med-lg box	USEPA	2,055.20	0.00	1.03	
		Recycling	Beverage Container	0.037/can	USEPA	0.00	23.09	0.01	
		Recycling	Glass	0.5 lb/beer bottle	USEPA	0.00	52.00	0.03	
6	Restaurant	Reuse	Metal Leased Refillable	Actual weight 0.25 lb/leased refillable cont	Company Data	1,274.00	0.00	0.64	
		Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	66.50	0.00	0.03	
7	Dental Lab	Reuse	Cardboard	1.1 lb/small box	USEPA	220.00	0.00	0.11	
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	26.00	0.00	0.01	
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	4.60	0.00	0.00	
		Recycling	Beverage Container	0.037/can	USEPA	0.00	19.24	0.01	
		Recycling	Precious Metal Fines	58-65 lb/cf	FEECO	0.00	29.00	0.01	
8	Pharmacy	Reuse	Plastic Packaging	6.27/cy	Tellus	12.54	0.00	0.01	
		Reuse	Cardboard	1.1 lb/small box	USEPA	226.80	0.00	0.11	

		Reuse	Scratch Pap.	5 lb/ream	USEPA	62.00	0.60	0.03
		Reuse	Plastic totes replace Cardboard	5.1 lb/14 gallon replaces 2.2 lb/med box	USEPA	2,880.00	0.00	1.43
		Recycling	Paper	5 lb/ream	USEPA	0.00	234.00	0.12
		Recycling	Newspaper	35 lb/12" stack=2.9 lb/inch	USEPA	0.00	754.00	0.36
		Recycling	Plastic	0.33 lb/1- gal	USEPA	0.00	300.30	0.15
9	Church/School	Reuse	Paper - Scratch pads	5 lb/ream	USEPA	25.00	0.00	0.01
		Reuse/Refill	Beverage Container	0.05/cup	USEPA	144.30	0.00	0.07
		Reuse	Toner Cartridge	2.5/cartridge	USEPA	112.50	0.00	0.06
11	Gifts	Reuse	Pallet	40 lbs/pallet	USEPA	40.00	0.00	0.02
		Reuse	Scratch Paper	5 lb/ream	USEPA	32.00	0.00	0.02
		Reuse	Cardboard	4 lb/rg box	USEPA	3,200.00	0.00	1.60
		Reuse	Polyethylene Peanuts	Actual weight 15 lb each	Company Data	15.00	0.00	0.01
12	Restaurant	Recycling	Cooking Oil	410 lb/55 gallon drum	USEPA	0.00	10,880.00	5.33
13	Jewelry & Antiques	Reuse	Newspaper for Packaging	35 lb/12" stack=2.9 lb/inch	USEPA	150.80	0.00	0.08
		Recycling	Cardboard	2.2 lb/med box	USEPA	0.00	66.00	0.03
		Recycling	Beverage Container	0.037/can	USEPA	0.00	9.82	0.00
14	Blind School/Residence	Reuse	Newspaper	35 lb/12" stack=2.9 lb/inch	USEPA	3,132.00	0.00	1.57
		Reuse	Scratch Paper	5 lb/ream	USEPA	1,333.28	0.00	0.67
		Reuse/Refill	Plastic Water Bottle	0.1 lb/ 8 oz. bottle	USEPA	2,160.00	0.00	1.08
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	318.60	0.00	0.16
		Recycling	Cardboard	2.2 lb/med box	USEPA	0.00	3,432.00	1.72
		Recycling	Beverage Container	0.037/can	USEPA	0.00	798.20	0.40
16	Gallery/School	Reuse	Cardboard	1.1 lb/small box	USEPA	55.00	0.00	0.03
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	15.00	0.00	0.01
		Reuse	Furniture Donated	Actual weight 1000 lb	Company Data	1,008.00	0.00	0.50
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	11.04	0.00	0.01
		Recycling	Beverage Container	0.89 lb/case (24 cans)	USEPA	0.00	10.68	0.01
17	Tubing	Reuse	Cardboard	2.2 lb/med box	USEPA	118.80	0.00	0.06
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	4.60	0.00	0.00
		Recycling	Beverage Container	0.037/can	USEPA	0.00	9.82	0.00
		Recycling	Metal Tubing	Actual weight 100 lb/5yr	Company Records	0.00	20.39	0.01
18	Restaurant		None			0.00	0.00	0.00
19	Florist	Reuse	Cardboard	1.1 lb/small box	USEPA	1,716.00	0.00	0.86
		Reuse	Newspaper for Packaging	Actual weight 3 lb/day	Company Data	980.00	0.00	0.49
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	5.52	0.00	0.00
		Recycling	Beverage Container	0.037/can	USEPA	0.00	34.63	0.02
20	Furniture Making	Reuse	Cardboard	2.2 lb/med box	USEPA	4.40	0.00	0.00
		Reuse	Wood Scraps Donated	Actual weight 20 lb/mo	Company Data	240.00	0.00	0.12
21	Plumbing/Htg. AC	Reuse	Cardboard	Actual weight 200 lb/mo	Company Data	2,400.00	0.00	1.20
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	26.00	0.00	0.01
22	Private School	Reuse	Cardboard	2.2 lb/med box	USEPA	217.80	0.00	0.11
		Reuse	Scratch Paper	50 lb/case	USEPA	450.00	0.00	0.23
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	23.60	0.00	0.01
		Reuse	Computer Donation	58 lb/computer	BUG	112.00	0.00	0.06
		Reuse	Toner Cartridge	2.5/cartridge	USEPA	5.00	0.00	0.00
		Recycling	Plastic Beverage Container	3 lb/33 gallon bag full (12 oz.)	USEPA	0.00	120.00	0.06
23	Art Restoration/Framing		None			0.00	0.00	0.00
24	Facial Salon		None			0.00	0.00	0.00
25	Hair Salon	Reuse	Magazines Donated	3 lb/10 units	USEPA	16.20	0.00	0.01
26	Liquor Store	Recycling	Newspaper	Actual weight 15 lb/wk	Company Data	780.00	0.00	0.39
		Reuse	Plastic Case replaces Cardboard	1.2 lb/beverage case replaces 2.2 lb/mediu	USEPA	10,580.00	0.00	5.28
		Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	9.50	0.00	0.00
		Recycling	Cardboard	2.2 lb/med box	USEPA	0.00	15,598.00	7.80
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	30.00	0.00	0.02
28	Asbestos/Lead Testing	Reuse	Cardboard	3.1 lb avg med /large boxes	USEPA	74.40	0.00	0.04
		Recycling	Paper	50 lb/case	USEPA	0.00	1,200.00	0.60
		Reuse	Partitions Donated	Actual weight 200 lb/yr	Company Data	200.00	0.00	0.10
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	7.50	0.00	0.00
		Recycling	Beverage Container	0.037/can	USEPA	57.72	0.00	0.03
29	Restaurant	Reuse	Newspaper Returned to Vendor	35 lb/12" stack=2.9 lb/inch	USEPA	603.20	0.00	0.30
		Recycling	Cooking Oil	7.45 lb/gallon	USEPA	0.00	2,980.00	1.49
30	Deli/Sweets	Reuse	Plastic Market Bags	0.77 lb/100 bags	USEPA	6,160.00	0.00	3.08
		Recycling	Beverage Container	0.89 lb/case	USEPA	0.00	284.80	0.14
31	Dress Making	Reuse	Textiles Donated	225 lb/cy	Telus	74.25	0.00	0.04
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	6.14	0.00	0.00
		Recycling	Newspaper	35 lb/12" stack=2.9 lb/inch	USEPA	0.00	139.20	0.07
		Recycling	Steel Cans	0.77 lb/#10 can	USEPA	0.00	27.72	0.01
		Recycling	Plastic	0.33 lb/1- gal container	USEPA	0.00	19.80	0.01
32	Floral & Keepsakes	Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	7.67	0.00	0.00
		Reuse	Cardboard	11% of 743 lb	Company Data	81.84	0.00	0.04
		Recycling	Cardboard	2.2 lb/med box	USEPA	0.00	743.60	0.37
33	Gifts	Reuse	Cardboard	2.2 lb/med box	USEPA	457.60	0.00	0.23
		Reuse	Plastic Peanutts	22.55 lb/cy	Telus	16.01	0.00	0.01
34	Welding	Reuse	Plastic Peanutts	Actual weight 1lb/1/2 gal container	Company Data	5.00	0.00	0.00
		Recycling	Beverage Container	0.89 lb/case (24 cans)	USEPA	0.00	47.65	0.02
		Recycling	Scrap Metal	59-65 lb/cd	USEPA	0.00	498.85	0.25
35	Travel Agency	Reuse	Cardboard	2.2 lb/med box	USEPA	118.80	0.00	0.06
		Reuse	Brochures Donated to Schools	Actual weight 1.3 lb/box	Company Data	18.20	0.00	0.01
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	5.57	0.00	0.00
		Recycling	Beverage Container	0.89 lb/case (24 cans)	USEPA	0.00	14.95	0.01
36	Market	Reuse	Plastic Crate	1.2 lb/beverage case replaces 2.2 lb/medi	USEPA	1,830.40	0.00	0.92
		Reuse	Cardboard	2.2-med. box	USEPA	1,144.00	0.00	0.57
		Reuse	Bread Donated	18 lb/cl	FEEO	261.00	0.00	0.13
		Recycling	Newspaper	35 lb/12" stack=2.9 lb/inch	USEPA	0.00	1,508.00	0.75

		Recycling	Plastic	8 lb/33 gal or. bar	USEPA	0.00	234.00	0.12
		Recycling	Glass	22 lb/case (24 bottles)	USEPA	0.00	1,248.00	0.62
		Recycling	Cardboard	2.2 lb/med box	USEPA	0.00	2,288.00	1.14
37	Religious	Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	136.80	0.00	0.07
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	60.00	0.00	0.03
		Recycling	Cardboard	2.2/med. box	USEPA	0.00	5,148.00	2.57
		Recycling	Newspaper	35 lb/12" stack	USEPA	0.00	1,295.00	0.65
		Recycling	Steel Cans	0.77 lb/#10 can	USEPA	0.00	1,001.00	0.50
		Recycling	Plastic	0.09 lb/1/2 gal container	USEPA	0.00	468.00	0.23
		Recycling	Cooking Oil	7.45 lb/gallon	USEPA	0.00	96.80	0.05
		Recycling	Aluminum Cans	0.037/can	USEPA	0.00	1,788.00	0.89
		Recycling	Glass	0.5 lb/8 oz bottle	USEPA	0.00	36.00	0.02
38	Machine Shop	Reuse	Cardboard	1.1 lb/small box	USEPA	165.00	0.00	0.08
		Reuse	Steel Drum	60 lb/55 gallon drum	www.spill911.com	240.00	0.00	0.12
		Recycling	Beverage Container	0.037/can	USEPA	0.00	10.66	0.01
39	Bicycle Manufacturing	Reuse	Pallet (Plastic)	40 lb/plastic pallet	USEPA	40.00	0.00	0.02
		Reuse	Cardboard	2.2/med. box	USEPA	11.00	0.00	0.01
		Reuse	Plastic 5 Gallon Bucket	Actual weight of buckets 10 lb	Company Data	10.89	0.00	0.01
		Reuse	Wood Scrap	Actual weight of wood 20 lb	Company Data	19.77	0.00	0.01
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	1.63	0.00	0.00
		Recycling	Metals - new company (1998)	Actual weight of metal 350 lb	Company Data	0.00	350.00	0.18
		Recycling	Beverage Container	0.037/can	USEPA	0.00	19.24	0.01
40	Gas Station	Reuse	Pallet	40 lb/pallet	USEPA	1,440.00	0.00	0.72
		Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	47.50	0.00	0.02
		Reuse	Steel Drum	60 lb/drum	www.spill911.com	720.00	0.00	0.36
		Recycling	Beverage Container	0.037/can	USEPA	0.00	24.05	0.01
41	Auto Service	Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	38.00	0.00	0.02
		Reuse	Steel Drum	60 lb/drum	www.spill911.com	720.00	0.00	0.36
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	5.86	0.00	0.00
		Recycling	Beverage Container	0.037/can	USEPA	0.00	19.24	0.01
42	Newspaper Branch Office	Reuse	Paper Duplexed	0.01 lb/sheet	USEPA	50.52	0.00	0.03
44	Dry Cleaner	Recycling	Paper	50 lb/case	USEPA	0.00	150.00	0.06
		Reuse	Hanger	0.14 lb/hanger	USEPA	672.00	0.00	0.34
		Recycling	Cardboard	2.2/med. box	USEPA	0.00	184.80	0.09
		Recycling	Paper	50 lb/case	USEPA	0.00	600.00	0.30
		Recycling	Plastic	1.9 lb/5 gal bucket	USEPA	0.00	11.40	0.01
		Recycling	Glass	0.5 lb/8 oz.bottle	USEPA	0.00	120.00	0.06
		Recycling	Beverage Container	0.037/can	USEPA	0.00	71.93	0.04
		Recycling	Steel Drum	42 lb/30 gallon drum	www.spill911.com	0.00	126.00	0.06
		Recycling	Plastic Bags	0.77 lb/100 bags	USEPA	0.00	1,201.20	0.60
45	Printer	Recycling	Beverage Container	0.037/can	USEPA	0.00	44.40	0.02
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	1.20	0.00	0.00
		Reuse	Pallet	40 lbs/pallet	USEPA	280.00	0.00	0.14
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	1.53	0.00	0.00
46	Real Estate	Reuse	Cardboard	2.2/med. box	USEPA	114.40	0.00	0.06
		Recycling	Paper	0.77 lb/gal	USEPA	0.00	3,243.24	1.62
47	Magazine Publisher	Reuse	Pallet	40 lb/pallet	USEPA	960.00	0.00	0.48
		Reuse	Magazine Donated	1.4 lb/magazine	USEPA	30.80	0.00	0.02
		Reuse	Cardboard	2.2/med. box	USEPA	132.00	0.00	0.07
		Recycling	Beverage Container	0.037/can	USEPA	0.00	192.40	0.10
48	Upholstery Shop	Reuse	Expired Fabric Sample Books Donated	Actual weight 150 lb	Company Data	150.00	0.00	0.08
		Recycling	Paper	35 lb/12" stack=2.9 lb/inch	USEPA	0.00	754.00	0.38
49	Financial Institution	Reuse	Cardboard	2.2/med. box	USEPA	132.00	0.00	0.07
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	7.80	0.00	0.00
		Reuse	Toner Cartridge	2.5/cartridge	USEPA	60.00	0.00	0.03
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	5.00	0.00	0.00
		Recycling	Paper	0.01 lb/sheet	USEPA	0.00	39.00	0.02
50	Storage, Mail Boxes	Reuse	Scratch Paper	0.01 lb/sheet	USEPA	7.20	0.00	0.00
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	4.25	0.00	0.00
		Recycling	Newspaper	35 lb/12" stack=2.9 lb/inch	USEPA	0.00	6,032.00	3.02
51	Non-profit	Reuse	Newspaper Returned to Vendor	35 lb/12" stack=2.9 lb/inch	USEPA	24.15	0.00	0.01
		Reuse	Coffee Cans for Projects	0.77 lb/#10 can	USEPA	13.86	0.00	0.01
		Reuse	Plastic Ice Cream Container for Projects	0.33 lb/1- gal container	USEPA	300.30	0.00	0.15
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	9.20	0.00	0.00
		Recycling	Cardboard	2.2/med. box	USEPA	0.00	211.20	0.11
		Recycling	Aluminum tray	Actual weight of tray 1 lb/tray	Company Data	52.00	0.00	0.03
52	Glass Shop	None	None			0.00	0.00	0.00
53	Fitness Club	Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	15.00	0.00	0.01
		Reuse	Magazines Donated	3 lb/10 units (magazines donated)	USEPA	60.00	0.00	0.03
54	Restaurant	Recycling	Plastic	0.33 lb/1- gal container	USEPA	0.00	369.80	0.18
55	Restaurant	Reuse	Pallet	40 lbs/pallet	USEPA	40.00	0.00	0.02
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	1.25	0.00	0.00
		Recycling	Beverage Container	0.037/can	USEPA	0.00	9.82	0.00
		Recycling	Glass	22 lb/case	USEPA	0.00	1,248.00	0.62
56	Business Association	Reuse	Scratch Paper	5 lb/m	USEPA	20.00	0.00	0.01
		Reuse/Refill	Plastic Bottle	0.05/bottle	USEPA	13.00	0.00	0.01
57	Government Facility	Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	237.50	0.00	0.12
		Reuse	File Folders	Actual weight 1 lb/mo	Company Data	12.00	0.00	0.01
		Reuse	Manila Envelopes	37 lb/cf reused/donated to schools	FEECO	151.33	0.00	0.08
		Reuse	Replace paper in files with stamp on top sheet	0.01 lb/sheet	USEPA	28.00	0.00	0.01
		Reuse	Cardboard	2.2/med. box	USEPA	26.40	0.00	0.01
		Reuse	Scratch Paper	0.01 lb/sheet scratch pads	USEPA	52.00	0.00	0.03
		Reuse	Duplex Copying	5 lb/ream	USEPA	2,925.00	0.00	1.46
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTelesis	15.34	0.00	0.01
		Recycling	Cardboard	2.2/med. box	USEPA	0.00	2,288.00	1.14
		Recycling	Newspaper	35 lb/12" stack	USEPA	0.00	420.00	0.21
		Recycling	Shredded Paper	8 lb/33 gal	USEPA	0.00	1,716.00	0.86

## Board Meeting

January 22, 23, 2002

Agenda Item  
Attachment 2a

		Recycling	Mixed Paper	25.41 lb/33 gallon	USEPA	0.00	200.00	0.00
		Recycling	Beverage Container	5.61 lb/33 gallons	USEPA	0.00	33.86	0.02
59	Public School	Reuse	Duplex Copying	5 lb/ream	USEPA	379.60	0.00	0.19
		Reuse	Scratch Paper	5 lb/ream	USEPA	50.00	0.00	0.03
		Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	10.45	0.00	0.01
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	7.50	0.00	0.00
		Recycling	Paper	.77 lb/gal	USEPA	0.00	43.12	0.02
60	Auto Service	Reuse	Steel drum - business started in 1994	60 lb/55 gal drum	www.spill911.com	2,160.00	0.00	1.08
61	Newspaper	Reuse	Scratch Paper	0.01 lb/sheet	USEPA	19.76	0.00	0.01
		Reuse	Large Manila Envelope	0.04 lb/envelope	USEPA	20.80	0.00	0.01
		Recycling	Newspaper	35 lb/12" stack	USEPA	0.00	8,190.00	4.10
		Recycling	Telephone Book	4 lb/book	USEPA	0.00	64.00	0.03
62	News Stand	Recycling	Newspaper	35 lb/12" stack	USEPA	0.00	7,805.00	3.80
		Recycling	Magazine	3 lb/10 units	USEPA	0.00	1,290.00	0.65
63	Park	Reuse	Cardboard	2.2/med. box	USEPA	60.50	0.00	0.03
		Reuse	Kids Color on Back of Paper	0.01 lb/sheet	USEPA	52.00	0.00	0.03
		Reuse/Refill	Beverage Container	0.05/bottle	USEPA	112.00	0.00	0.06
		Reuse	Duplexed Paper	5 lb/ream	USEPA	322.00	0.00	0.16
		Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	114.00	0.00	0.06
		Grasscycling	Grasscycling	6.5 tons/acre	UC Riverside CoOp Extension	160,000.00	0.00	84.50
		Recycling	Paper	5 lb/ream	USEPA	0.00	120.00	0.06
		Recycling	Cardboard	2.2/med. box	USEPA	0.00	60.50	0.03
		Recycling	Mixed Paper	10.01/13 gal	USEPA	0.00	26.00	0.01
		Recycling	Magazine	3 lb/10 units	USEPA	0.00	72.00	0.04
		Recycling	Cardboard	2.2/med. box	USEPA	0.00	60.50	0.03
		Recycling	Beverage Container	Actual weight 2000 lb	Company Data	0.00	2,000.70	1.00
64	Public Library	Reuse	Cardboard	2.2/med. box	USEPA	114.40	0.00	0.06
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTellesis	10.74	0.00	0.01
		Recycling	Mixed Paper	363.5 lb/cy	USEPA	0.00	9,451.00	4.73
65	Nursing Home	Reuse	Toner Cartridge	2.5/cartridge	USEPA	25.00	0.00	0.01
		Reuse	Plastic Case replaces Cardboard	1.2 lb/beverage case replaces 2.2/med box	USEPA	514.80	0.00	0.26
		Reuse	Duplexed Paper	0.01 lb/sheet	USEPA	38.40	0.00	0.02
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059 lb	USEPA	56.64	0.00	0.03
		Reuse	Computers Donated	58 lb/computer	USEPA	504.00	0.00	0.25
		Recycling	Plastic	0.33 lb/1-gal container	USEPA	0.00	211.20	0.11
		Recycling	Newspaper	35 lb/12" stack	USEPA	0.00	1,925.00	0.90
		Recycling	Beverage Container	0.037/can	USEPA	0.00	118.40	0.06
66	Restaurant	Compost	Coffee Grounds	Actual weight 7.5 lb/wk	Company Data	300.00	0.00	0.20
		Reuse	Scratch Paper	0.01 lb/sheet	USEPA	2.80	0.00	0.00
		Reuse	Special Repeat Order Forms	0.01 lb/sheet	USEPA	72.80	0.00	0.04
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTellesis	93.45	0.00	0.05
		Reuse	Furniture Donated	Actual weight of furniture 20 lb	Company Data	20.00	0.00	0.01
		Reuse	Food Donated to Senior Citizens	18 lb/cf	FECCO	3,249.00	0.00	1.62
68	Architect	Reuse	Toner Cartridge	2.5/cartridge	USEPA	5.00	0.00	0.00
		Reuse	Magazines Donated to Schools	3 lb/10 units (magazines)	USEPA	50.10	0.00	0.03
69	Business Mgmt.	Reuse	Scratch Paper	0.01 lb/sheet	USEPA	78.00	0.00	0.04
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	7.50	0.00	0.00
		Reuse	Computer Donated	58 lb/computer	BUG	58.00	0.00	0.03
71	Restaurant	Reuse	Plastic Bucket	1.9 lb/5 gal bucket	USEPA	34.20	0.00	0.02
		Reuse	Food Donated to Skid Row	18 lb/cf	FECCO	4,680.00	0.00	2.34
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTellesis	13.22	0.00	0.01
		Recycling	Glass	1.08 lb/wine bottle	USEPA	0.00	15.66	0.01
		Recycling	Glass	0.53 lb/beer bottle	USEPA	0.00	633.88	0.32
		Recycling	Cooking Oil	7.45 lb/gallon	USEPA	0.00	1,192.00	0.60
72	Gas Station	Recycling	Beverage Container	0.037/can	USEPA	0.00	129.98	0.06
		Recycling	Plastic beverage container	0.05 lb ea	USEPA	0.00	130.00	0.07
73	Post Office	Reuse	Scratch Paper	5 lb/ream	USEPA	1,353.30	0.00	0.68
		Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTellesis	53.69	0.00	0.03
		Reuse	Pallet	40 lbs/pallet	USEPA	2,080.00	0.00	1.04
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	50.00	0.00	0.03
		Recycling	Plastic Beverage Container	0.05 lb/ea	USEPA	0.00	286.00	0.14
74	Auto Repair	Recycling	Steel Keg - Business started in 1990	10 lb/16 gal steel keg	Company Data	0.00	360.00	0.18
75	Real Estate Agent	Reuse	Cardboard	2.2/med. box	USEPA	114.40	0.00	0.06
		Source Reduction	Software Changes to use less paper	0.01 lb/sheet	USEPA	195.00	0.00	0.10
76	Restaurant	None	None			0.00	0.00	0.00
78	Financial Institution	Reuse/Refill	Beverage Container	Actual weight of cup 0.0059/ 8 oz. cup	EcoTellesis	4.80	0.00	0.00
		Reuse/Refill	Toner Cartridge	2.5/cartridge	USEPA	10.00	0.00	0.01
		Recycling	Paper	0.01 lb/sheet	USEPA	0.00	650.00	0.33
79	Real Estate Agent	None	None			0.00	0.00	0.00
80	Machine Shop	Reuse	Cardboard	2.2/med. box	USEPA	82.40	0.00	0.05
		Reuse	Newspaper for Packaging	35 lb/12" stack	USEPA	11.80	0.00	0.01
		Reuse	Reusable Plastic Water Filter Jug replaces	10.33 lb/1-gal container	USEPA	3.98	0.00	0.00
		Recycling	Metal Scrap	50 lb/yr	Company Data	0.00	50.00	0.03

Total

Total Lbs

434,548.19 1,073,061.16 753.81

Total Tons

SR Rec Grand Total  
217.27 502.44 753.81